controlling the output of said transport packet on the basis of the information and the arrival time stamp.

43. (New) A recording medium for storing a plurality of connected data streams, said data streams being stored in accordance with the steps of:

extracting a program clock reference from a received transport stream;

generating a clock signal synchronized with said program clock reference;

generating an arrival time stamp of transport packet in synchronization with said clock signal;

formatting to add said arrival time stamp to the transport packet;

generating information representative of a transport packet corresponding to discontinuity of the added arrival time stamps in the transport stream; and

controlling the output of said transport packet on the basis of the information and the arrival time stamp.

REMARKS

Early consideration and allowance of this application are respectfully requested.

In this preliminary amendment applicant has canceled claims 1-5 and 15-17 and added claims 18-43 and intends this amendment to comprise a complete response to the rejections of claims 1-5 and 15-17 set forth in the Final Office Action of October 22, 2002 in the parent application.

At paragraph 1 of the outstanding Office Action of October 22, 2002, the Examiner approved the proposed drawing correction filed on March 7, 2002. Applicant submits

that corrected drawings were submitted with proposed drawing correction filed on March 7, 2002. Applicant will submit corrected formal drawings upon allowance of the case.

At paragraph 4 of the outstanding Office Action of October 22, 2002, the Examiner rejected claims 1-5 and 15-17 under 35 U.S.C. §112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most neatly connected, to make and/or use the invention. Specifically, the Examiner stated that the information generating means and the discontinuity indicator generating means each provide the same function. Applicant has canceled claims 1-5 and 15-17. Applicant therefore, respectfully requests that the rejection of claims 1-5 and 15-17 under 35 U.S.C. §112, first paragraph, be withdrawn.

At paragraph 5 of the outstanding Office Action of October 22, 2002, the Examiner rejected claims 1-5 and 15-17 under 35 U.S.C. §112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Specifically, the Examiner stated that there was no antecedent basis for "the time stamp counter" on the last line of each base claim. Applicant has canceled claims 1-5 and 15-17. Applicant therefore, respectfully requests that the rejection of claims 1-5 and 15-17 under 35 U.S.C. §112, second paragraph, be withdrawn.

At paragraph 8 of the outstanding Office Action of October 22, 2002, the Examiner rejected claims 1, 4, 5 and 15 under 35 U.S.C. §102(b) as being anticipated by Adachi et al. Applicant respectfully traverses the rejection.

At paragraph 8 of the Office Action of September 26, 2001, of the parent application with Serial No. 313,100 the Examiner allowed claims 9-13 over the prior art of record. Specifically, the Examiner stated that "none of the references alone or in combination

disclosed or suggested a reproducing apparatus including information outputting apparatus or corresponding method/medium including...time stamp continuity information...and means for controlling the timing signal based on the time stamp and time stamp continuity information". The added element to independent claims 18, 22, 26, 30, 34, 38, 42 and 43 in the pending application recites similar subject matter.

Applicant therefore, submits that the rejection of independent claims 1, 4, 5 and 15 over the prior art of record would be improper.

At paragraph 10 of the outstanding Office Action of October 22, 2002, the Examiner rejected claims 1, 3-5, 15 and 17 under 35 U.S.C. §103(a) as being unpatentable over applicant's admitted prior art in view of Menezes. Applicant respectfully traverses the rejection.

At paragraph 8 of the Office Action of September 26, 2001, of the parent application with Serial No. 313,100 the Examiner allowed claims 9-13 over the prior art of record. Specifically, the Examiner stated that "none of the references alone or in combination disclosed or suggested a reproducing apparatus including information outputting apparatus or corresponding method/medium including...time stamp continuity information...and means for controlling the timing signal based on the time stamp and time stamp continuity information". The added element to independent claims 18, 22, 26, 30, 34, 38, 42 and 43 in the pending application recites similar subject matter. Claims 19-21, 23-25, 27-29, 31-33, 35-37 and 39-41 are dependent from one of amended independent claims 18, 22, 26, 30, 34, 38, 42 and 43, and, due to such dependency, are believed to be distinguishable from the prior art of record.

Applicant therefore, submits that the rejection of independent claims 1, 4, 5 and 15 over the prior art of record would be improper.

At paragraph 11 of the outstanding Office Action of October 22, 2002, the Examiner rejected claims 1, 2, 4, 5, 15 and 16 under 35 U.S.C. §103(a) as being unpatentable over applicant's admitted prior art in view of Larson. Applicant respectfully traverses the rejection.

At paragraph 8 of the Office Action of September 26, 2001, of the parent application with Serial No. 313,100 the Examiner allowed claims 9-13 over the prior art of record. Specifically, the Examiner stated that "none of the references alone or in combination disclosed or suggested a reproducing apparatus including information outputting apparatus or corresponding method/medium including...time stamp continuity information...and means for controlling the timing signal based on the time stamp and time stamp continuity information". The added element to independent claims 18, 22, 26, 30, 34, 38, 42 and 43 in the pending application recites similar subject matter. Claims 19-21, 23-25, 27-29, 31-33, 35-37 and 39-41 are dependent from one of amended independent claims 18, 22, 26, 30, 34, 38, 42 and 43, and, due to such dependency, are believed to be distinguishable from the prior art of record.

Applicant therefore, submits that the rejection of independent claims 1, 4, 5 and 15 over the prior art of record would be improper.

Attached hereto is a marked-up version of the changes made to the claims by the current amendment. The attached page is captioned **"Version with markings to show changes made."**

It is to be appreciated that the foregoing comments concerning the disclosures in the cited prior art represent the present opinions of the Applicant's undersigned attorney and, in the event, that the Examiner disagrees with any such opinions, it is requested that the Examiner indicate where, in the reference, there is the basis for a contrary view.

In view of the foregoing amendments and remarks, it is believed that all of the claims in this application are patentable over the prior art, and early and favorable consideration thereof is solicited.

Please charge any fees incurred by reason of this response and not paid herewith to Deposit Account No. 50-0320.

Respectfully submitted,
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Version with markings to show changes made

IN THE CLAIMS

Please cancel claims 1-5 and 15-17. Please add claims 18-43.

18. (New) An information outputting apparatus comprising:

an extractor operable to extract a program clock reference from a received transport stream;

a clock generator operable to generate a clock signal synchronized with said program clock reference;

a time-stamp generator operable to generate an arrival time stamp of transport packet in synchronization with said clock signal;

a formatting unit operable to add said arrival time stamp to the transport packet;

an information generator operable to generate information representative of a transport packet corresponding to discontinuity of the added arrival time stamps in the transport stream; and

a controller operable to control the output of said transport packet on the basis of the information and the arrival time stamp.

19. (New) The information outputting apparatus according to claim 18,

wherein a recording control circuit stores a playback management file of an original playback path corresponding to a transport stream in a storage media unit.

20. (New) The information outputting apparatus according to claim 19, wherein said playback management file includes file names, times and addresses of an edited playback path and locations or points of time at each of which discontinuity of time stamps is generated.

21. (New) The information outputting apparatus according to claim 20, wherein a playback control circuit reads out said playback management file from a storage media unit and supplies a signal for resetting an initial-value-reset control circuit.

22. (New) An information outputting apparatus comprising:

a time-stamp generator operable to generate sequential time stamp in response to a clock;

a formatting unit operable to add said time stamp indicating arrival time of each transport packet to the transport packet;

an information generator operable to generate information indicative of positional information of the transport packet corresponding to discontinuity of the added time stamps, wherein said information and the time stamp is utilized to control the output of said transport packet; and

a recording unit operable to record said positional information along with the input transport packet.

23. (New) The information outputting apparatus according to claim 22, wherein a recording control circuit stores a playback management file of an original playback path corresponding to a transport stream in a storage media unit.

24. (New) The information outputting apparatus according to claim 23, wherein said playback management file includes file names, times and addresses of an edited playback path and locations or points of time at each of which discontinuity of time stamps is generated.

25. (New) The information outputting apparatus according to claim 24, wherein a playback control circuit reads out said playback management file from a storage media unit and supplies a signal for resetting an initial-value-reset control circuit.

26. (New) An information outputting apparatus comprising:

a time-stamp generator operable to generate an arrival time stamp indicative of arrival time of received transport packet;

a formatting unit operable to add said arrival time stamp to the received transport packet; and

an information generator operable to generate information indicating a discontinuity of the generated arrival time stamp in the transport stream, whereby the output of the transport packet is controlled on the basis of the information and the arrival time stamp.

27. (New) The information outputting apparatus according to claim 26, wherein a recording control circuit stores a playback management file of an original playback path corresponding to a transport stream in a storage media unit.

28. (New) The information outputting apparatus according to claim 27, wherein said playback management file includes file names, times and addresses of an edited playback path and locations or points of time at each of which discontinuity of time stamps is generated.

29. (New) The information outputting apparatus according to claim 28, wherein a playback control circuit reads out said playback management file from a storage media unit and supplies a signal for resetting an initial-value-reset control circuit.

30. (New) A method for information outputting, comprising the steps of:

extracting a program clock reference from a received transport stream;

generating a clock signal synchronized with said program clock reference;

generating an arrival time stamp of transport packet in synchronization with said clock signal;

formatting to add said arrival time stamp to the transport packet;

generating information representative of a transport packet corresponding to discontinuity of the added arrival time stamps in the transport stream; and

controlling the output of said transport packet on the basis of the information and the arrival time stamp.

31. (New) A method according to claim 30,

wherein a recording control circuit stores a playback management file of an original playback path corresponding to a transport stream in a storage media unit.

32. (New) A method according to claim 31,

wherein said playback management file includes file names, times and addresses of an edited playback path and locations or points of time at each of which discontinuity of time stamps is generated.

33. (New) A method according to claim 32,

wherein a playback control circuit reads out said playback management file from a storage media unit and supplies a signal for resetting an initial-value-reset control circuit.

34. (New) A method for information outputting, comprising the steps of:

generating sequential time stamp in response to a clock;

formatting to add said time stamp indicating arrival time of each transport packet to the transport packet;

generating information indicative of positional information of the transport packet corresponding to discontinuity of the added time stamps, wherein said information and the time stamp is utilized to control the output of said transport packet; and

recording said positional information along with the input transport packet.

35. (New) A method according to claim 34,

wherein a recording control circuit stores a playback management file of an original playback path corresponding to a transport stream in a storage media unit.

36. (New) A method according to claim 35,

wherein said playback management file includes file names, times and addresses of an edited playback path and locations or points of time at each of which discontinuity of time stamps is generated.

37. (New) A method according to claim 36,

wherein a playback control circuit reads out said playback management file from a storage media unit and supplies a signal for resetting an initial-value-reset control circuit.

38. (New) A method for information outputting, comprising the steps of:

generating an arrival time stamp indicative of arrival time of received transport packet;

formatting to add said arrival time stamp to the received transport packet; and

generating information indicating a discontinuity of the generated arrival time stamp in the transport stream, whereby the output of the transport packet is controlled on the basis of the information and the arrival time stamp.

39. (New) A method according to claim 38,

wherein a recording control circuit stores a playback management file of an original playback path corresponding to a transport stream in a storage media unit.

40. (New) A method according to claim 39,

wherein said playback management file includes file names, times and addresses of an edited playback path and locations or points of time at each of which discontinuity of time stamps is generated.

41. (New) A method according to claim 40,

wherein a playback control circuit reads out said playback management file from a storage media unit and supplies a signal for resetting an initial-value-reset control circuit.

42. (New) A computer program for driving an information outputting apparatus, comprising instructions for:

extracting a program clock reference from a received transport stream;

generating a clock signal synchronized with said program clock reference;

generating an arrival time stamp of transport packet in synchronization with said clock signal;

formatting to add said arrival time stamp to the transport packet;

generating information representative of a transport packet corresponding to discontinuity of the added arrival time stamps in the transport stream; and

controlling the output of said transport packet on the basis of the information and the arrival time stamp.

43. (New) A recording medium for storing a plurality of connected data streams, said data streams being stored in accordance with the steps of:

extracting a program clock reference from a received transport stream;

generating a clock signal synchronized with said program clock reference;

generating an arrival time stamp of transport packet in synchronization with said clock signal;

formatting to add said arrival time stamp to the transport packet;

generating information representative of a transport packet corresponding to discontinuity of the added arrival time stamps in the transport stream; and

controlling the output of said transport packet on the basis of the information and the arrival time stamp.